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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/811,150	03/16/2001	Jeffrey Mock	42366/RAS/L462	5799

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EXAMINER

NGUYEN, CAM LINH T

ART UNIT PAPER NUMBER

2161

DATE MAILED: 12/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/811,150

Applicant(s)

MOCK ET AL.

Examiner

CamLinh Nguyen

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 September 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4,6,7 and 11-88 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4,6,7 and 11-88 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. Applicant's amendments to claims 1 – 88 are acknowledged. Consequently, claim 5, 8 – 10 are cancelled. Claims 1 – 4, 6 – 7, 11 – 88 are pending.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1 – 4, 6 – 7, and 11 - 88 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hoover et al (U.S. 5,724,575) in view of Nishizawa et al (U.S. 6,694,306).

♦ As per claim 37, 73,

Hoover et al (U.S. 5,724,575) discloses a method of processing data in one or more databases of a database system, comprising:

- "Receiving one or source tables" corresponds to "the source" (See claim 97, col. 19, line 6 - 10.)
- "The source table describe one or more objects in the database" See col. 19, line 6 - 10.
- "Generating one or more mapping tables, wherein the mapping tables describe the content and relationship of the source tables" See claim 97, Fig. 7, col. 24 line 36 – 51.
- "Generating one or more inverted tables from the content and relationships of the source tables, wherein the inverted tables are based on the generated mapping tables". The "inverted table" is corresponding to the "Index table 130" in Fig. 8, col. 25 line 38 – 43.

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- “Mapping fields of the source tables to a predefined related set of fields” See Fig. 17, col. 41 line 23 – 37.

Hoover does not clearly disclose a data processing system that being embodied in a client computer and a plurality of server computers. However, Nishizawa, on the other hand, discloses a data processing system being embodied in a client computer and a plurality of server computers (See Fig. 1, element 105 for data processing system). It would have been obvious to one with ordinary skill in the art at the time the invention was made to apply the teaching of Nishizawa into the invention of Hoover, because the combination would reduce the cost of processing data by removing the central server and substitute it by a data processing system as taught by Nishizawa.

♦ As per claim 1,

Hoover et al (U.S. 5,724,575) discloses a method of processing data in one or more databases of a database system, comprising:

- “Receiving one or source tables” corresponds to “the source” (See claim 97,col. 19, line 6 - 10.)
- “The source table describe one or more objects in the database” See col. 19, line 6 - 10.
- “Generating one or more mapping tables, wherein the mapping tables describe the content and relationship of the source tables” See claim 97, Fig. 7, col. 24 line 36 – 51.
- “Generating one or more inverted tables from the content and relationships of the source tables, wherein the inverted tables are based on the generated mapping tables”. The “inverted table” is corresponding to the “Index table 130” in Fig. 8, col. 25 line 38 – 43.

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- “Mapping fields of the source tables to a predefined related set of fields” See Fig. 17, col. 41 line 23 – 37.
- “Receiving a query from the client computer for one or more entities” See Fig. 16, element 1 & 2, col. 21, lines 25 – 28.
- “Identifying the database fields that map to the fields of the predefined related set of fields searched” see Fig. 16, element 3, col. 41 line 23 – 37.
- “Retrieving the one or more entities from each database” see Fig. 16, element 5.
- “Wherein at least one of the above steps is executed in a server computer and at least one of the above steps is executed in the client computer” See Fig. 16. the first step is occurs in client computer where the request is sent to the remote computer. The retrieving step is occurs in the server computer.

Hoover does not clearly disclose a data processing system that being embodied in a client computer and a plurality of server computers. However, Nishizawa, on the other hand, discloses a data processing system being embodied in a client computer and a plurality of server computers (See Fig. 1, element 105 for data processing system). It would have been obvious to one with ordinary skill in the art at the time the invention was made to apply the teaching of Nishizawa into the invention of Hoover, because the combination would reduce the cost of processing data by removing the central server and substitute it by a data processing system as taught by Nishizawa.

◆ As per claim 2 - 3, 38 – 39, Hoover and Nishizawa disclose:

- “Predefined related set of fields comprises an international and specialized standard”.

Because the data are coming form heterogeneous data model and have different format

(col. 39 line 49 – 57), therefore, the predefined related set of fields must includes an international or specialized standard.

◆ As per claim 4, 40, Hoover and Nishizawa discloses:

- “Updating the inverted tables based on new source table data” See Fig. 14 – 15, col. 34 line 56 – 64, col. 36 line 62 – 67.

◆ As per claim 17, 21, 41, 57, 74, 81, 85, Hoover and Nishizawa disclose:

- “Receiving a query requesting an entity from one or more of the databases” corresponds to the “search message” from customer in Fig. 11, col. 39 line 50 – 53.

◆ As per claim 6, 42 – 43, Hoover and Nishizawa disclose:

- “The database entity comprises an object” and “a table” See col. 30 line 54 – 56.

◆ As per claim 11 - 13, 18 – 20, 22 – 24, 44 – 49, 54 – 56, 58 – 60, 75 – 80, 82 – 84, 86 – 88,

Hoover and Nishizawa disclose:

- “Identifying database fields, objects, retrieving the object, formatting the retrieved object, displaying” See Fig. 12, col. 31 line 57 – col. 32 line 28.

◆ As per claim 14 - 16, 25 – 26, 50 – 52, 61 – 62, Hoover and Nishizawa disclose:

- “The source tables describe a single database”, and “multiple database” See Fig. 1, where the customer database 26 and remote database 28 can be implemented as separated or in the single database (col. 10 line 19 – 23).

◆ As per claim 27, 53, 63, Hoover and Nishizawa disclose:

- “Object data is simultaneously retrieved from different databases” See Fig. 1. The data can be located in different databases such as in the Insurance company, Hospital, or Employer sites.

- ◆ As per claim 28, 64, Hoover and Nishizawa disclose:
 - “The source tables comprises a relational database” See col. 15 line 5 – 26.
- ◆ As per claim 29 – 30, 65 – 66, Hoover and Nishizawa disclose:
 - “The source table platform is XML or SGML”. Because the data are coming from heterogeneous data model and have different format (col. 39 line 49 – 57), therefore, the source table platform can be an XML or SGML format.
- ◆ As per claim 31 – 32, 67 – 68, Hoover and Nishizawa disclose:
 - “The inverted table comprises a terms look up table... to identify objects in the database” See Fig. 8, where the name of person is corresponding to the “term” and it is used to identify the object_ID in the database.
- ◆ As per claim 33 – 36, 69 – 72, Hoover and Nishizawa disclose:
 - As described in Fig. 8, the index or inverted table 130d comprises a value that includes one or more terms (providers).

Response to Arguments

1. Applicant's arguments filed 03/29/2004 have been fully considered but they are not persuasive.

◆ Applicant argues that the invention is directed to a client-server database system (page 15 of the Remark). However, there are no such claimed languages in the claims.

◆ Applicant further define the data processing system as a “protocol”. According to dictionary definition, “protocol” is a rule or form¹. Therefore, the Examiner gives the broadest meaning to

¹ See <http://thesaurus.reference.com/search?q=protocol>

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the protocol as a form. The Hoover system also is a form of system. Therefore, the Hoover reference is still read on the invention.

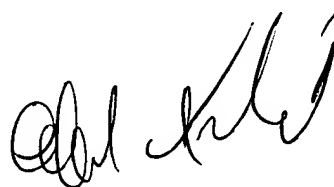
Conclusion

1. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CamLinh Nguyen whose telephone number is (571) 272-4024. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic can be reached on (571) 272-4023. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LN



**ALFORD KINDRED
PRIMARY EXAMINER**